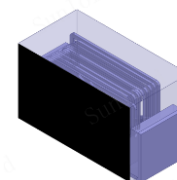


Thin Film RF Inductor – UHQ0201Q_P01 Series

Operating Temp. : -55°C~+125°C

FEATURES

- Monolithic structure for high reliability
- Excellent solderability and high heat resistance
- Ultra high Q factor



APPLICATIONS

- RF circuit in telecommunication and other equipments

PRODUCT IDENTIFICATION

UHQ

①

0201

②

Q

③

3N3

④

⑤

P

⑥

01

⑦

①

Type	
UHQ	Ceramic Chip Inductor

②

External Dimensions (L×W) (mm)	
0201 [008004]	0.25×0.125

③

Characteristics Code	
Q	Maximum thickness 0.2mm

④

Nominal Inductance	
Example	Nominal Value
3N3	3.3nH
4N1	4.1nH
※R= Decimal point, N=nH	

⑤

Inductance Tolerance	
B	±0.1nH
C	±0.2nH
S	±0.3nH
H	±3%
J	±5%

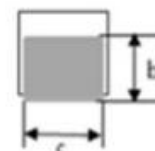
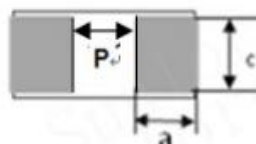
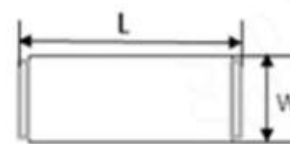
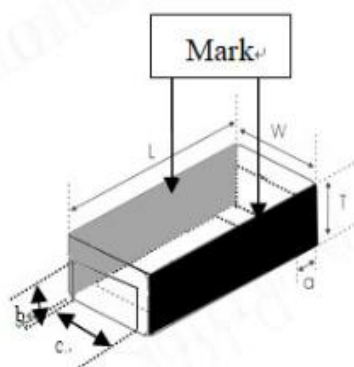
⑥

Packing	
P	Plastic Tape Carrier Package

⑦

Serial Code	
01	

SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a	b	c	P
0201 [008004]	0.25±0.013 [.010±.0005]	0.125±0.013 [.005±.0005]	0.2±0.013 [.008±.0005]	0.075±0.025 [.003±.0010]	0.115±0.025 [.005±.0010]	0.105±0.025 [.004±.0010]	0.07~0.1

1. Packaging and Storage

1.1 Packaging

Tape Carrier Packaging:

Packaging code: P

- a. Tape carrier packaging are specified in attached figure Fig.1.1-1~2
- b. Plastic tape and Cover tape has no spliced point.
- c. Missing components number within 0.01% of the number per reel or 1 pcs. whichever is greater, and are not continuous. The Specified quantity per reel is kept
- d. Tape carrier packaging quantity please see the following table:

Type	0201[008004]
Thickness (mm)	0.2±0.02
Tape	Plastic Tape
Quantity	40K

(1) Taping Drawings (Unit: mm)

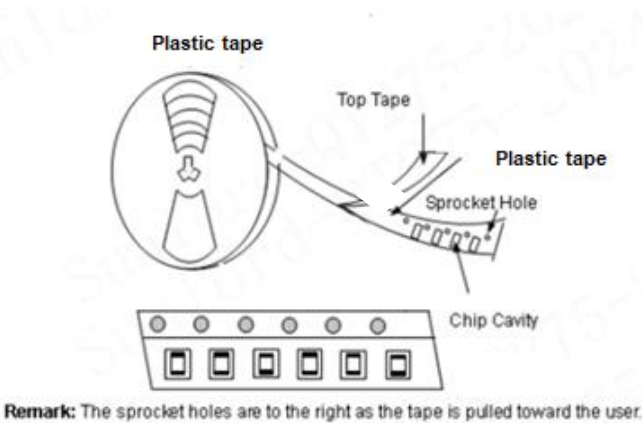


Fig. 1.1-1

(2) Taping Dimensions (Unit: mm)

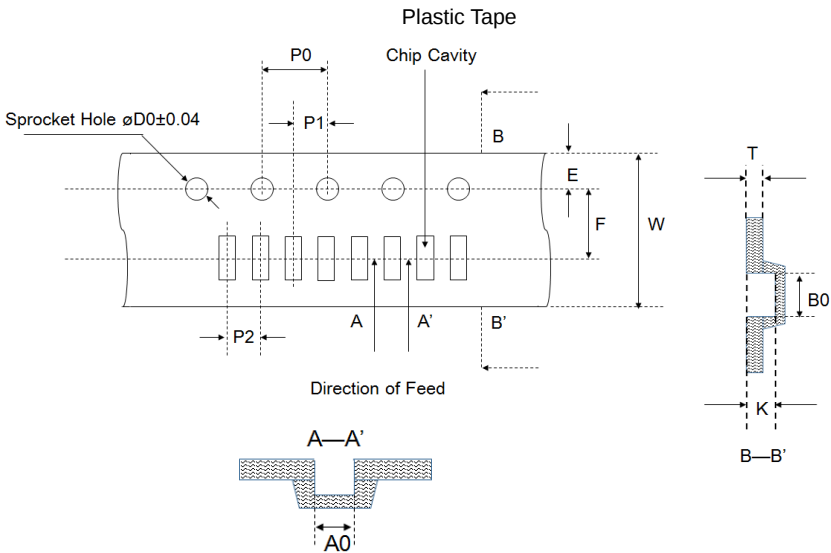


Fig. 1.1-2

Table1.1-1

Unit:mm

Type	A0	B0	T	W	K	P0	P1	P2	D0	F	E
0201	0.14± 0.02	0.27± 0.02	0.2± 0.02	4.0± 0.05	0.24± 0.02	2.0± 0.04	1.0± 0.02	1.0± 0.02	0.80± 0.04	1.8± 0.02	0.9± 0.05

SPECIFICATIONS

UHQ0201Q_P01 TYPE

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq. L/Q	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current	Thickness
Units	nH	-	MHz	MHz	Ω	mA	mm [inch]
Symbol	L	Q	Freq	S.R.F	DCR	I _r	T
UHQ0201Q0N3□P01	0.3	10	500	20000	0.02	500	0.2±0.013
UHQ0201Q0N4□P01	0.4	10	500	20000	0.04	450	
UHQ0201Q0N5□P01	0.5	10	500	20000	0.06	450	
UHQ0201Q0N6□P01	0.6	10	500	20000	0.1	450	
UHQ0201Q0N7□P01	0.7	10	500	20000	0.15	300	
UHQ0201Q0N8□P01	0.8	10	500	20000	0.15	300	
UHQ0201Q0N9□P01	0.9	10	500	20000	0.15	300	
UHQ0201Q1N0□P01	1	10	500	15000	0.18	300	
UHQ0201Q1N1□P01	1.1	10	500	15000	0.18	300	
UHQ0201Q1N2□P01	1.2	10	500	15000	0.18	300	
UHQ0201Q1N3□P01	1.3	10	500	15000	0.29	250	
UHQ0201Q1N4□P01	1.4	10	500	15000	0.32	250	
UHQ0201Q1N5□P01	1.5	10	500	15000	0.32	250	
UHQ0201Q1N6□P01	1.6	10	500	15000	0.32	250	
UHQ0201Q1N7□P01	1.7	10	500	15000	0.32	250	
UHQ0201Q1N8□P01	1.8	10	500	15000	0.32	250	
UHQ0201Q1N9□P01	1.9	10	500	15000	0.32	250	
UHQ0201Q2N0□P01	2	10	500	12000	0.32	250	
UHQ0201Q2N1□P01	2.1	10	500	12000	0.42	200	
UHQ0201Q2N2□P01	2.2	10	500	12000	0.43	200	
UHQ0201Q2N3□P01	2.3	10	500	12000	0.45	200	
UHQ0201Q2N4□P01	2.4	10	500	12000	0.46	200	
UHQ0201Q2N5□P01	2.5	10	500	12000	0.46	200	
UHQ0201Q2N6□P01	2.6	10	500	12000	0.46	200	
UHQ0201Q2N7□P01	2.7	10	500	12000	0.46	200	
UHQ0201Q2N8□P01	2.8	10	500	12000	0.46	200	
UHQ0201Q2N9□P01	2.9	10	500	12000	0.6	200	
UHQ0201Q3N0□P01	3	10	500	12000	0.6	200	
UHQ0201Q3N1□P01	3.1	10	500	12000	0.6	200	
UHQ0201Q3N2□P01	3.2	10	500	12000	0.6	200	
UHQ0201Q3N3□P01	3.3	10	500	12000	0.6	200	
UHQ0201Q3N4□P01	3.4	10	500	12000	0.7	150	
UHQ0201Q3N5□P01	3.5	10	500	12000	0.7	150	
UHQ0201Q3N6□P01	3.6	10	500	10000	0.85	150	
UHQ0201Q3N7□P01	3.7	10	500	10000	0.85	150	
UHQ0201Q3N8□P01	3.8	10	500	10000	0.88	150	
UHQ0201Q3N9□P01	3.9	10	500	10000	0.88	150	

UHQ0201Q4N0□P01	4	10	500	10000	0.88	150
UHQ0201Q4N1□P01	4.1	10	500	10000	0.9	150
UHQ0201Q4N2□P01	4.2	10	500	10000	0.9	150
UHQ0201Q4N3□P01	4.3	10	500	10000	0.9	150
UHQ0201Q4N7□P01	4.7	10	500	8000	1.2	150
UHQ0201Q5N1□P01	5.1	10	500	8000	1.2	150
UHQ0201Q5N6□P01	5.6	10	500	8000	1.2	150
UHQ0201Q6N2□P01	6.2	10	500	8000	1.3	100
UHQ0201Q6N8□P01	6.8	10	500	8000	1.5	100
UHQ0201Q7N5□P01	7.5	10	500	8000	1.5	100
UHQ0201Q8N2□P01	8.2	10	500	8000	1.5	100
UHQ0201Q9N1□P01	9.1	10	500	7000	2	100
UHQ0201Q10N□P01	10	10	500	7000	2	100

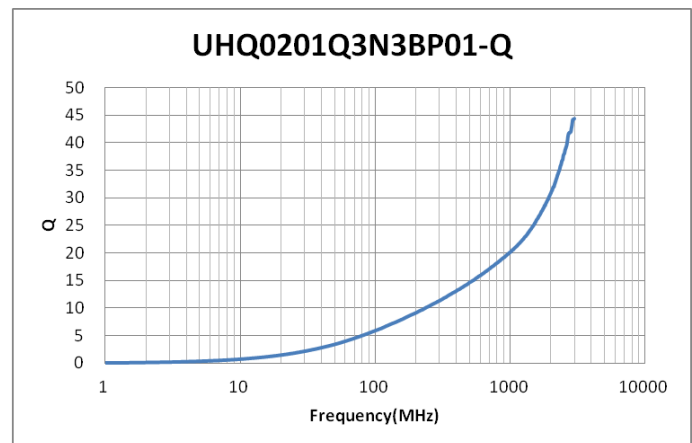
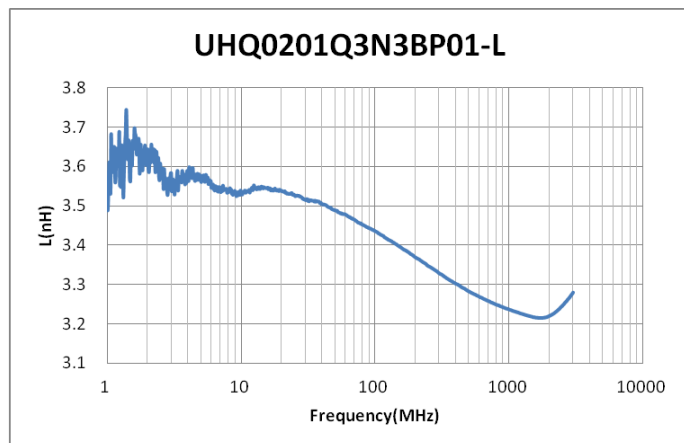
Note: □: Please specify the inductance tolerance. For $L \leq 4.2\text{nH}$, choose $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ or $S = \pm 0.3\text{nH}$; For $4.2\text{nH} < L < 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$ or $S = \pm 0.3\text{nH}$; For $L \geq 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$

TYPICAL ELECTRICAL CHARACTERISTICS

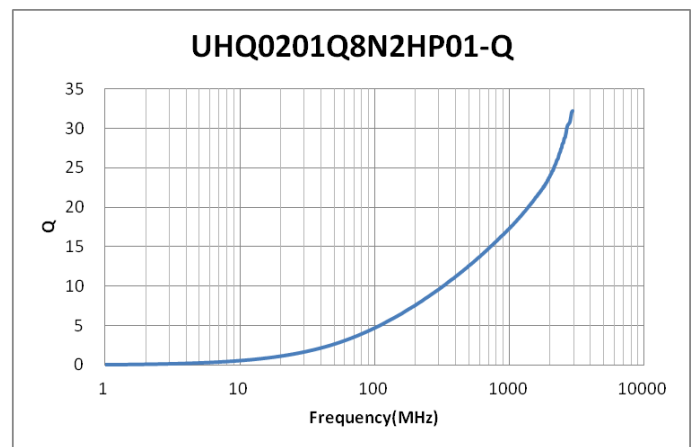
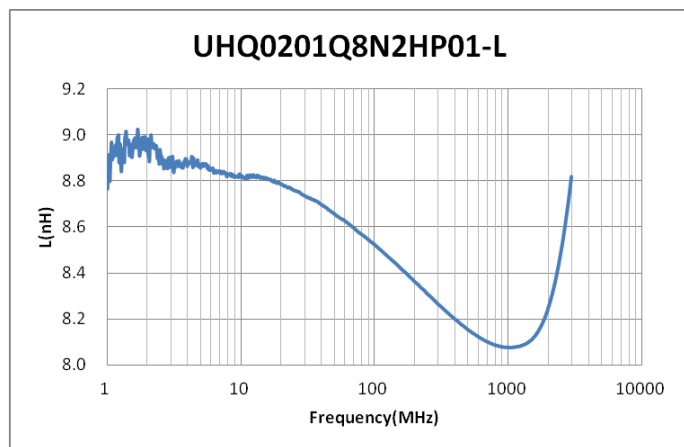
Inductance-Frequency Characteristics(Typ.)

Q-Frequency Characteristics(Typ.)

UHQ0201Q3N3BP01



UHQ0201Q8N2HP01



UHQ0201Q10NHP01

